FIG.1

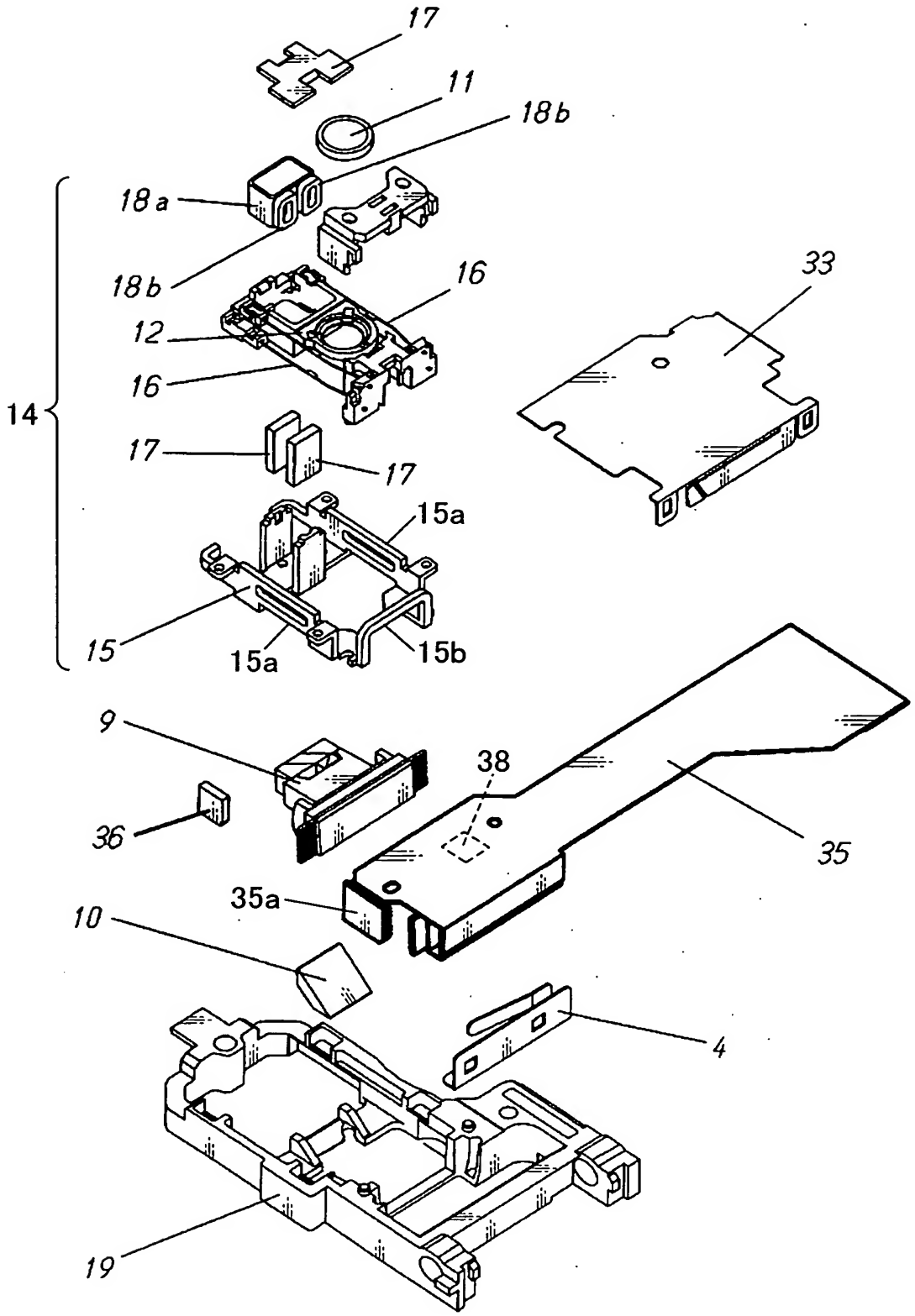

17
11
18b
18a
18b
16
12
16
14
17
17
15a
15
15a
15b
33
9
38
36
35
35a
10
4
19

FIG.2A

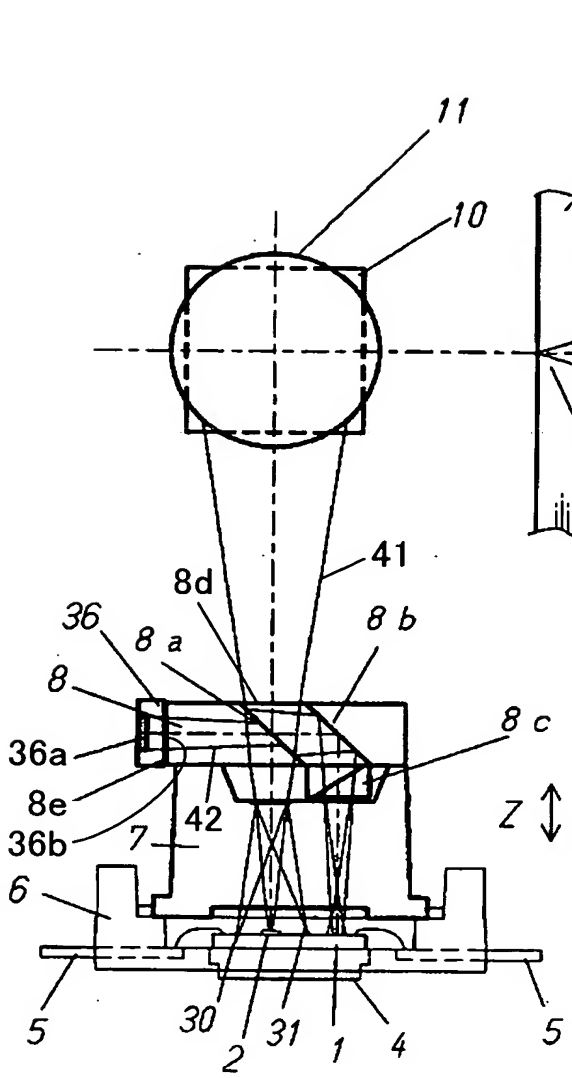
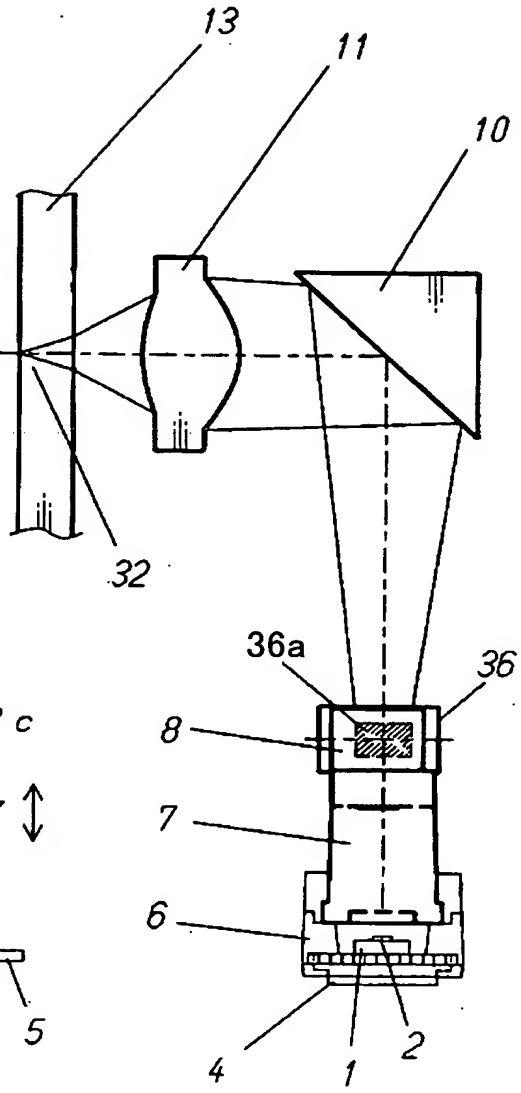

11
10
41
8d
36
8 a
8 b
8
36a
8 c
8e
36b
7
42
Z
6
5
30
2
31
1
4
5

FIG.2B


13
11
10
32
36a
36
8
7
6
4
1
2

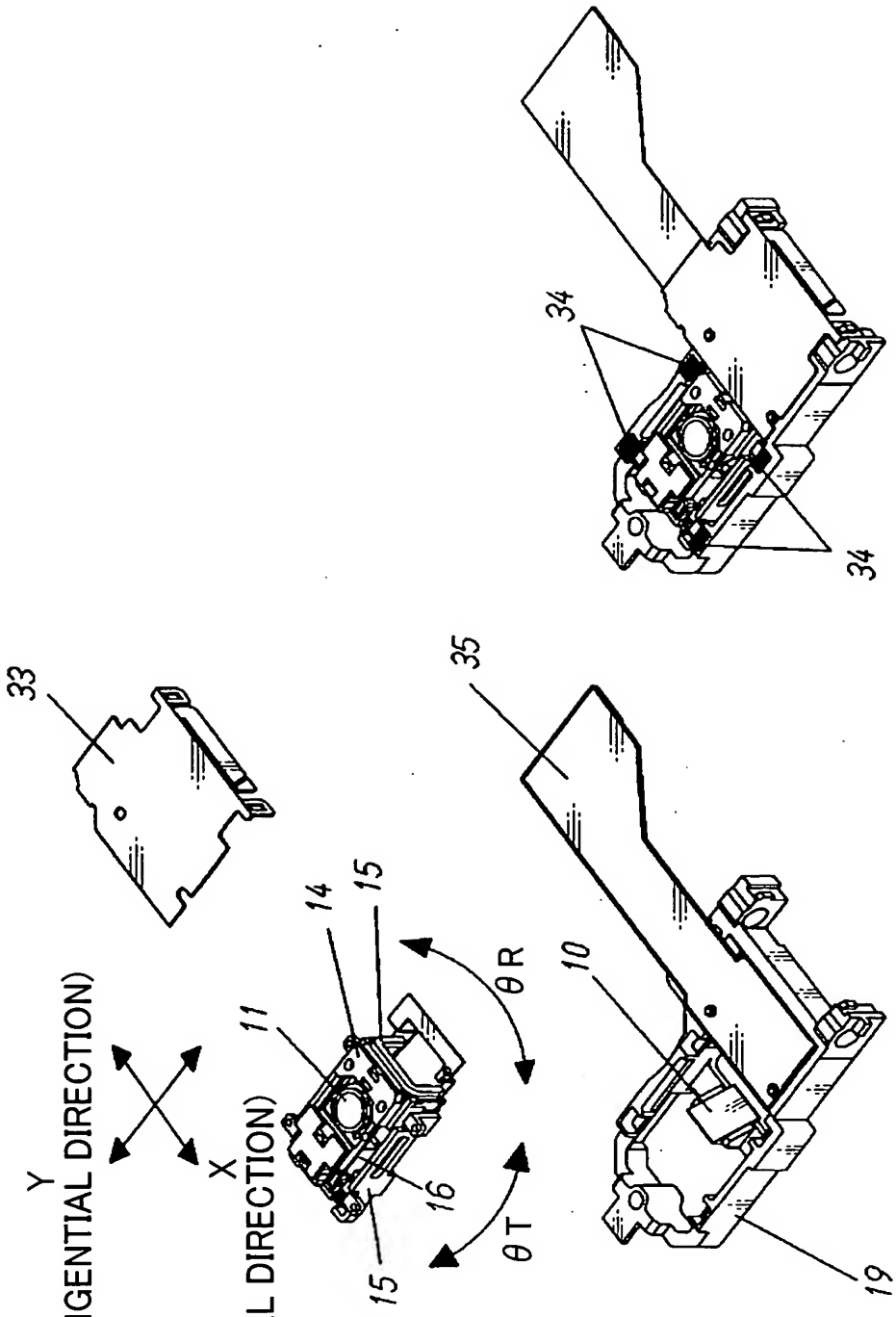
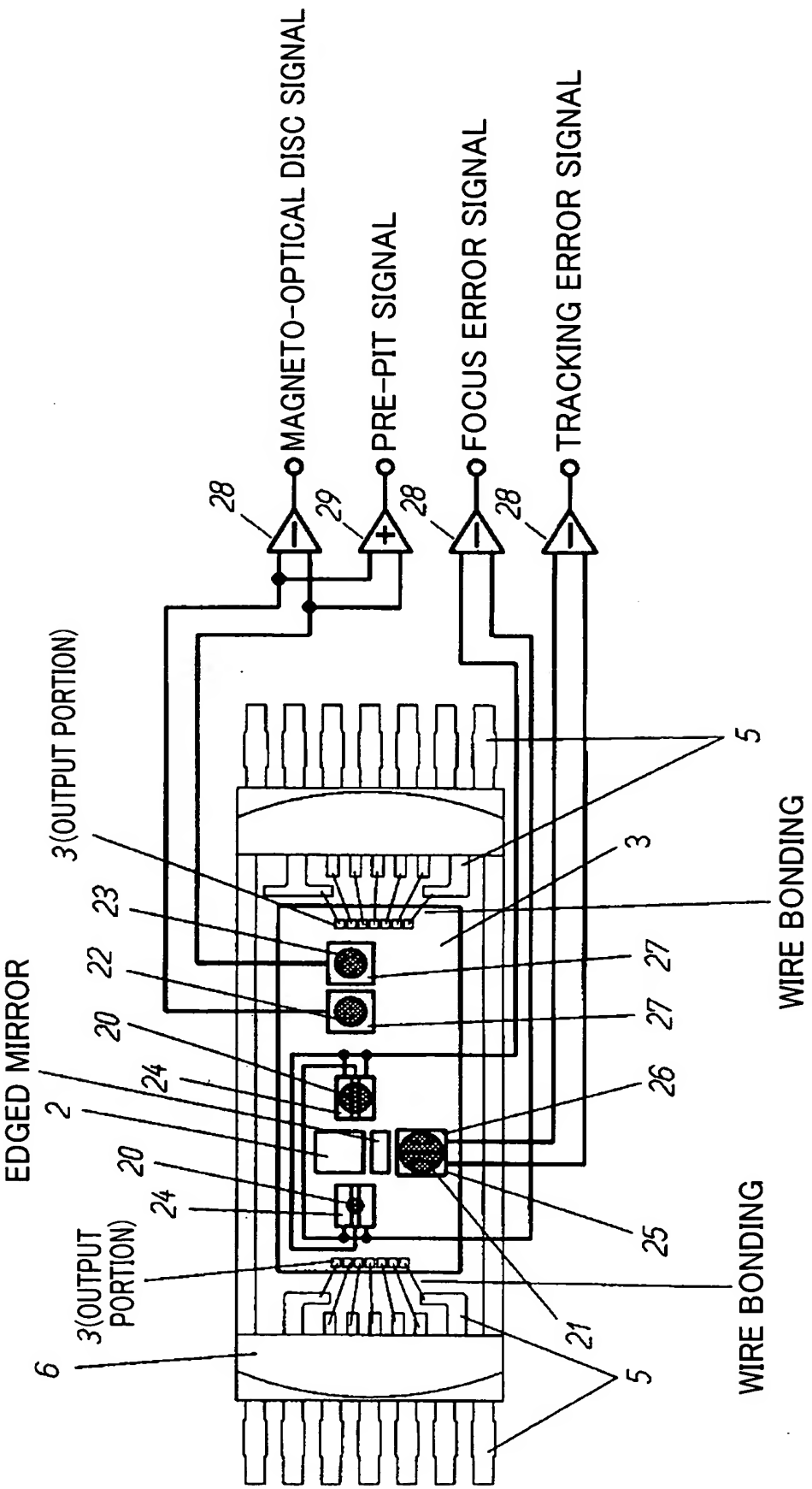

33
Y
(TANGENTIAL DIRECTION)
X
(RADIAL DIRECTION)
11
14
15
16
15
θR
θT
35
10
19

FIG.3A

34
34

FIG.3B

FIG.4


MAGNETO-OPTICAL DISC SIGNAL
PRE-PIT SIGNAL
FOCUS ERROR SIGNAL
TRACKING ERROR SIGNAL
28
29
28
28
3(OUTPUT PORTION)
EDGED MIRROR
2
3(OUTPUT PORTION)
6
23
22
20
24
20
24
21
25
26
27
27
3
5
5
WIRE BONDING
WIRE BONDING

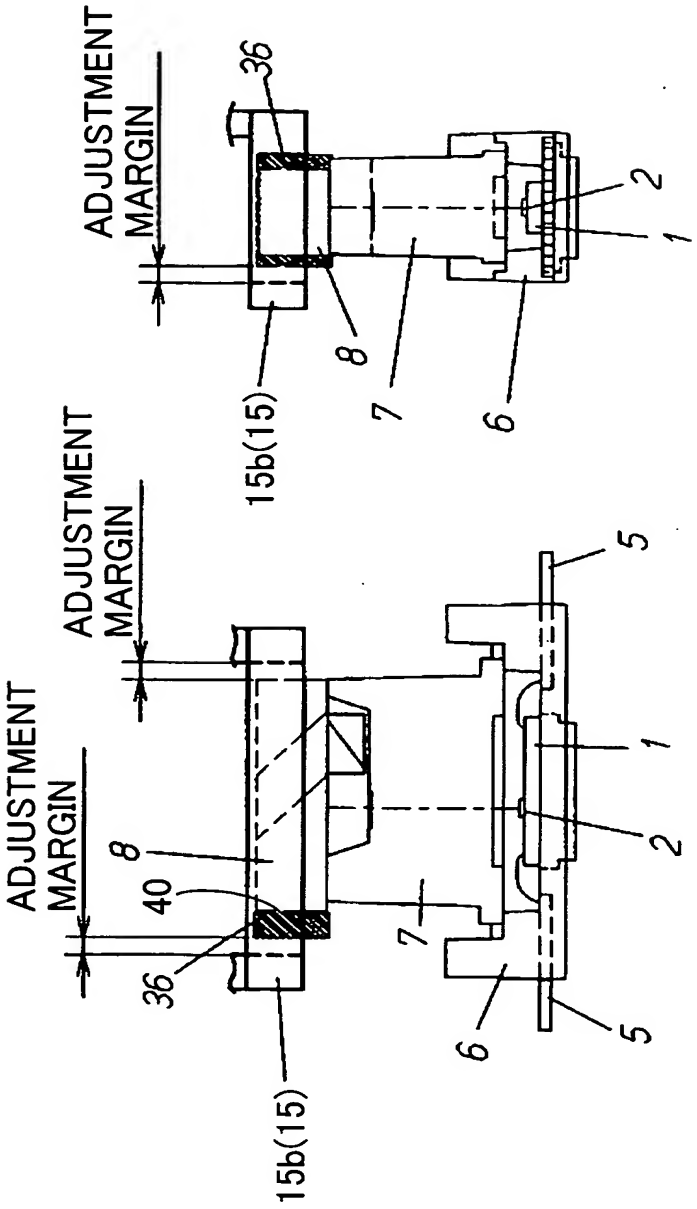

ADJUSTMENT MARGIN
36
2
1
8
7
6
15b(15)
ADJUSTMENT MARGIN
ADJUSTMENT MARGIN
8
40
36
15b(15)
7
6
5
1
2
5

FIG.5B

FIG.5A

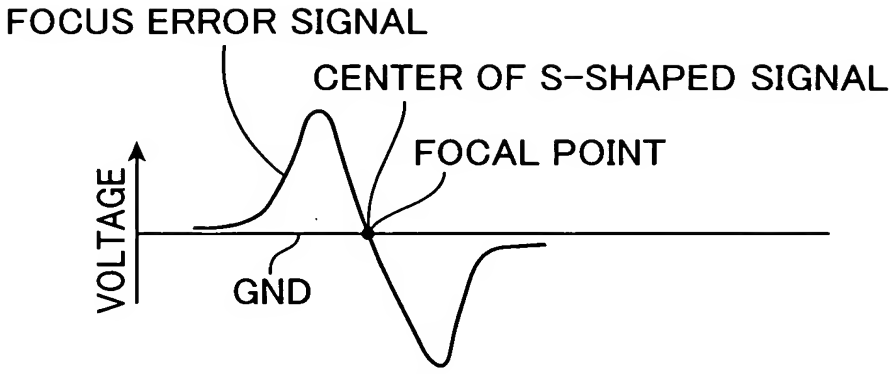

FOCUS ERROR SIGNAL
CENTER OF S-SHAPED SIGNAL
FOCAL POINT
VOLTAGE
GND

FIG.6A

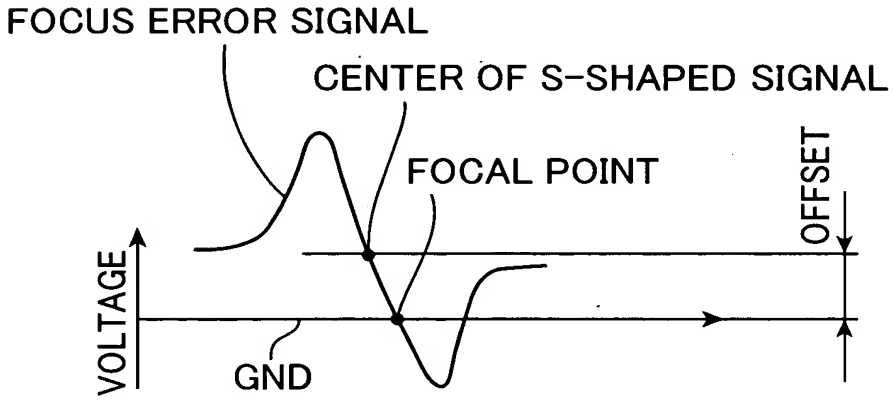

FOCUS ERROR SIGNAL
CENTER OF S-SHAPED SIGNAL
FOCAL POINT
OFFSET
VOLTAGE
GND

FIG.6B

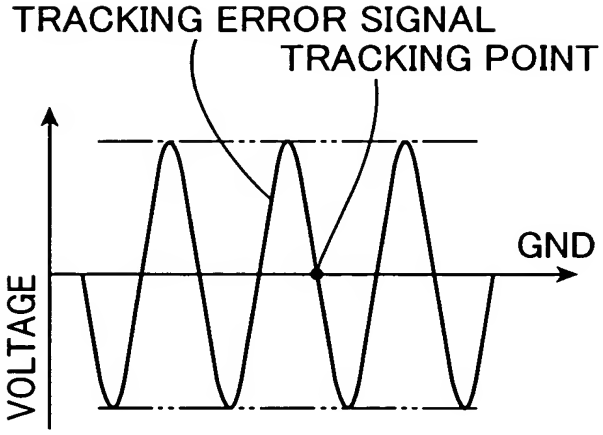

TRACKING ERROR SIGNAL
TRACKING POINT
GND
VOLTAGE

FIG.7A

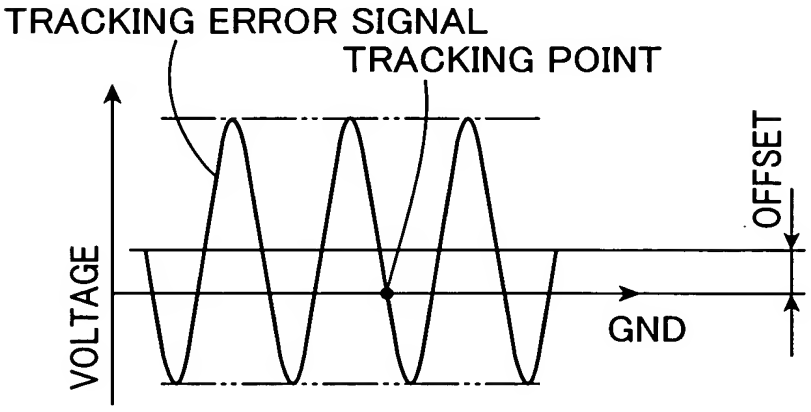

TRACKING ERROR SIGNAL
TRACKING POINT
OFFSET
GND
VOLTAGE

FIG.7B

FIG.8

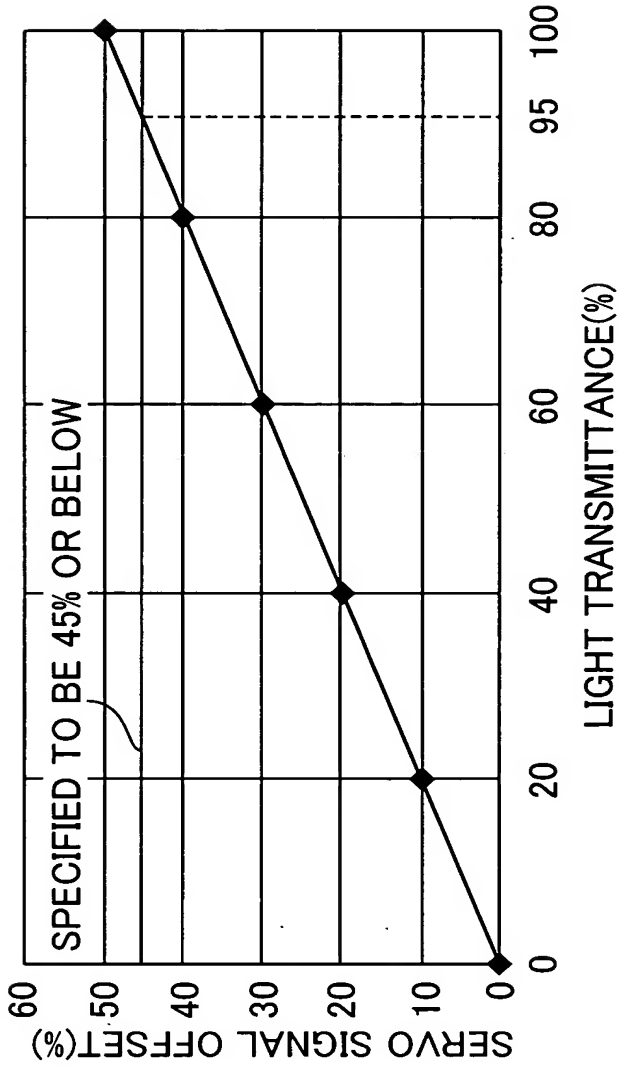

SERVO SIGNAL OFFSET(%)
60
50
40
30
20
10
0
SPECIFIED TO BE 45% OR BELOW
0
20
40
60
80
95
100
LIGHT TRANSMITTANCE(%)

FIG.9

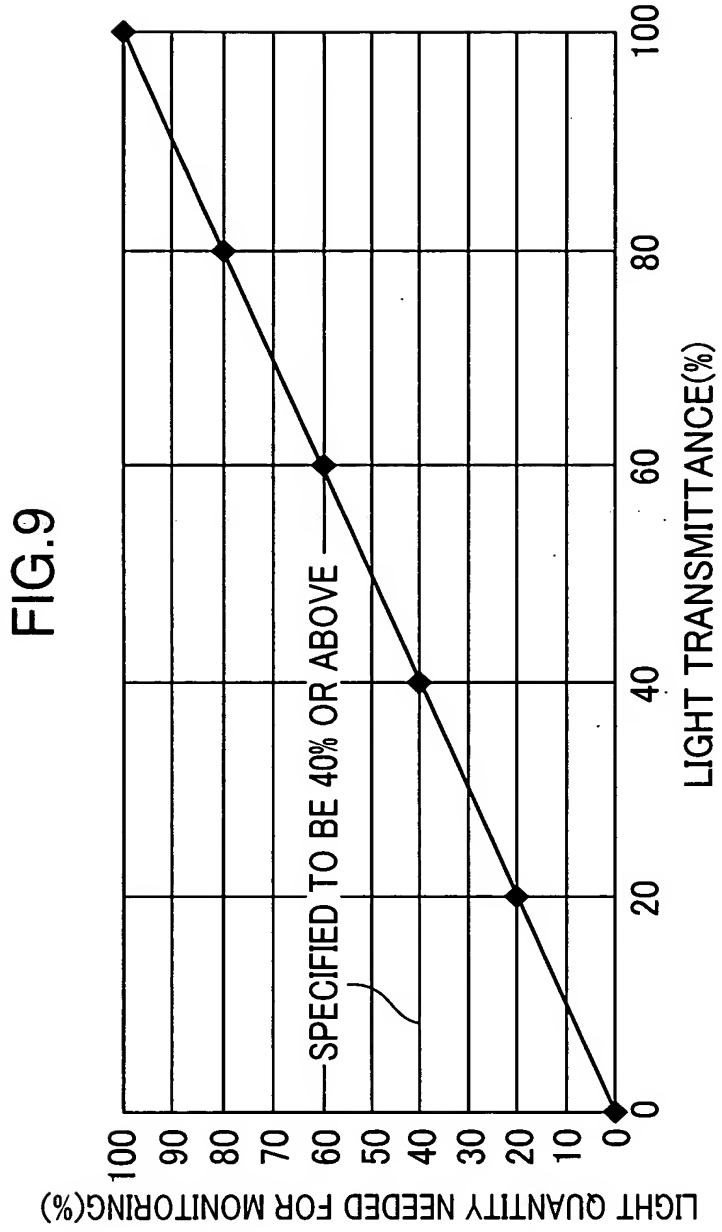

LIGHT QUANTITY NEEDED FOR MONITORING(%)
100
90
80
70
60
50
40
30
20
10
0
SPECIFIED TO BE 40% OR ABOVE
0
20
40
60
80
100
LIGHT TRANSMITTANCE(%)

FIG.10

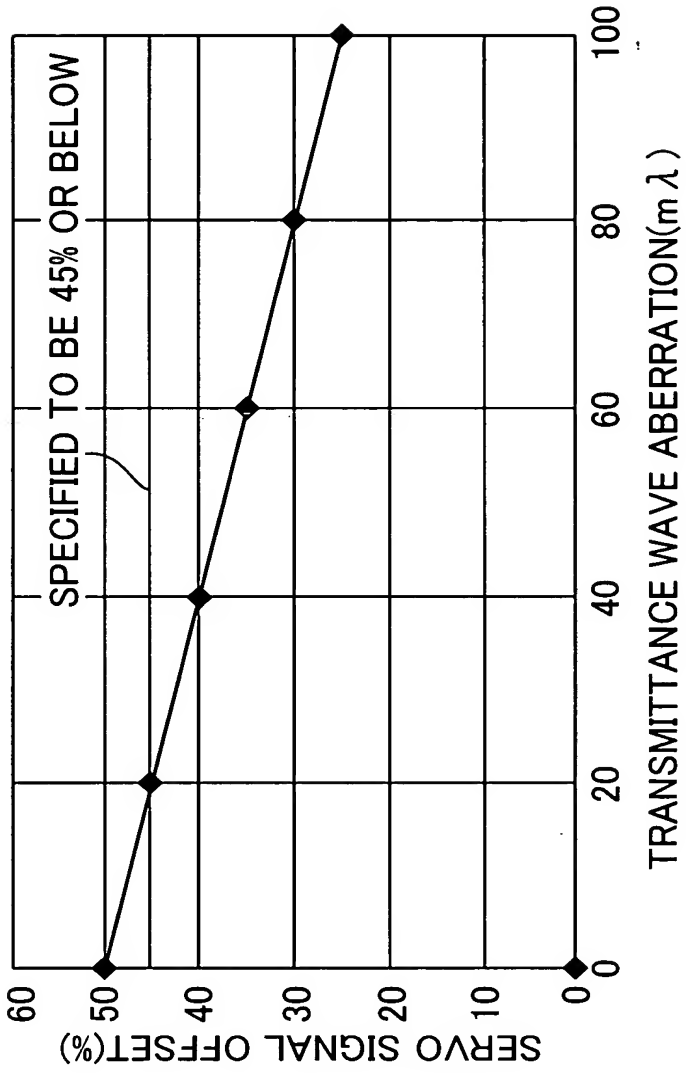

SPECIFIED TO BE 45% OR BELOW
SERVO SIGNAL OFFSET(%)
0
10
20
30
40
50
60
0
20
40
60
80
100
TRANSMITTANCE WAVE ABERRATION(mλ)

FIG.11

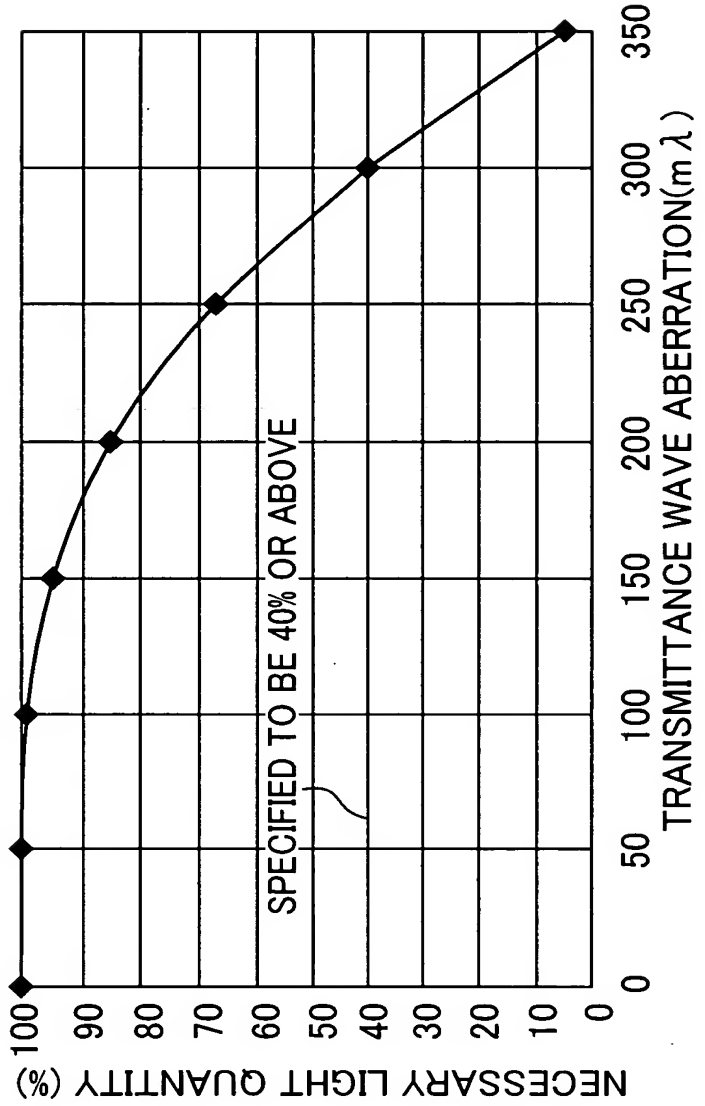

NECESSARY LIGHT QUANTITY (%)
100
90
80
70
60
50
40
30
20
10
0
SPECIFIED TO BE 40% OR ABOVE
0
50
100
150
200
250
300
350
TRANSMITTANCE WAVE ABERRATION(mλ)

FIG.12

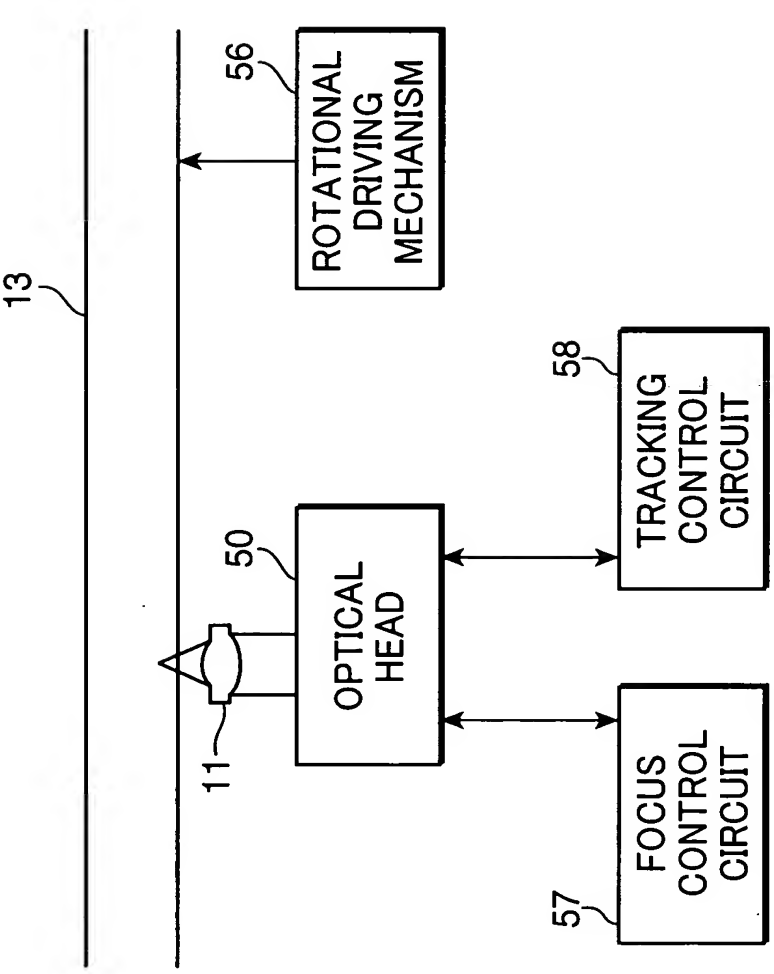
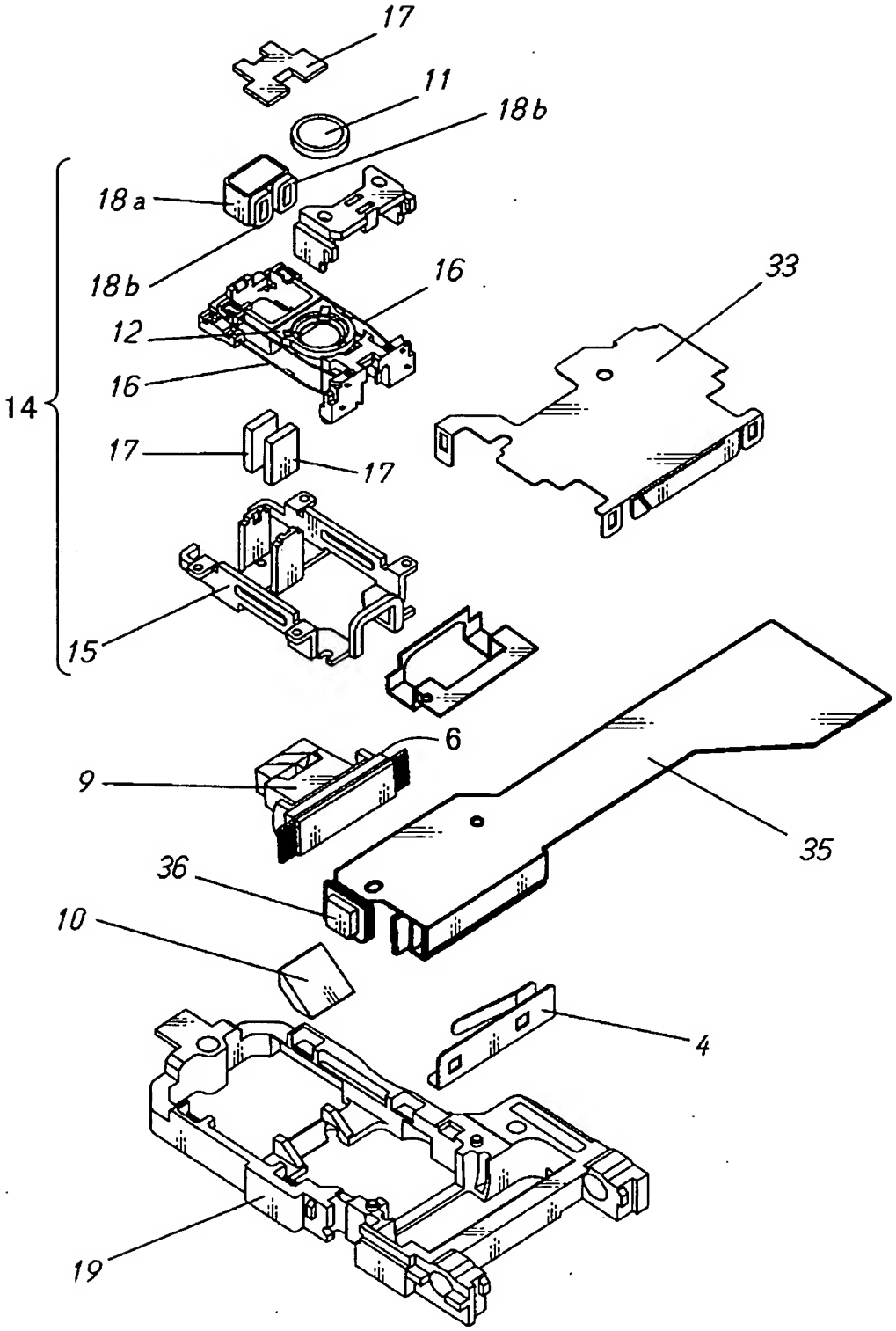

55
13
56
ROTATIONAL DRIVING MECHANISM
50
OPTICAL HEAD
11
58
TRACKING CONTROL CIRCUIT
57
FOCUS CONTROL CIRCUIT

FIG.13



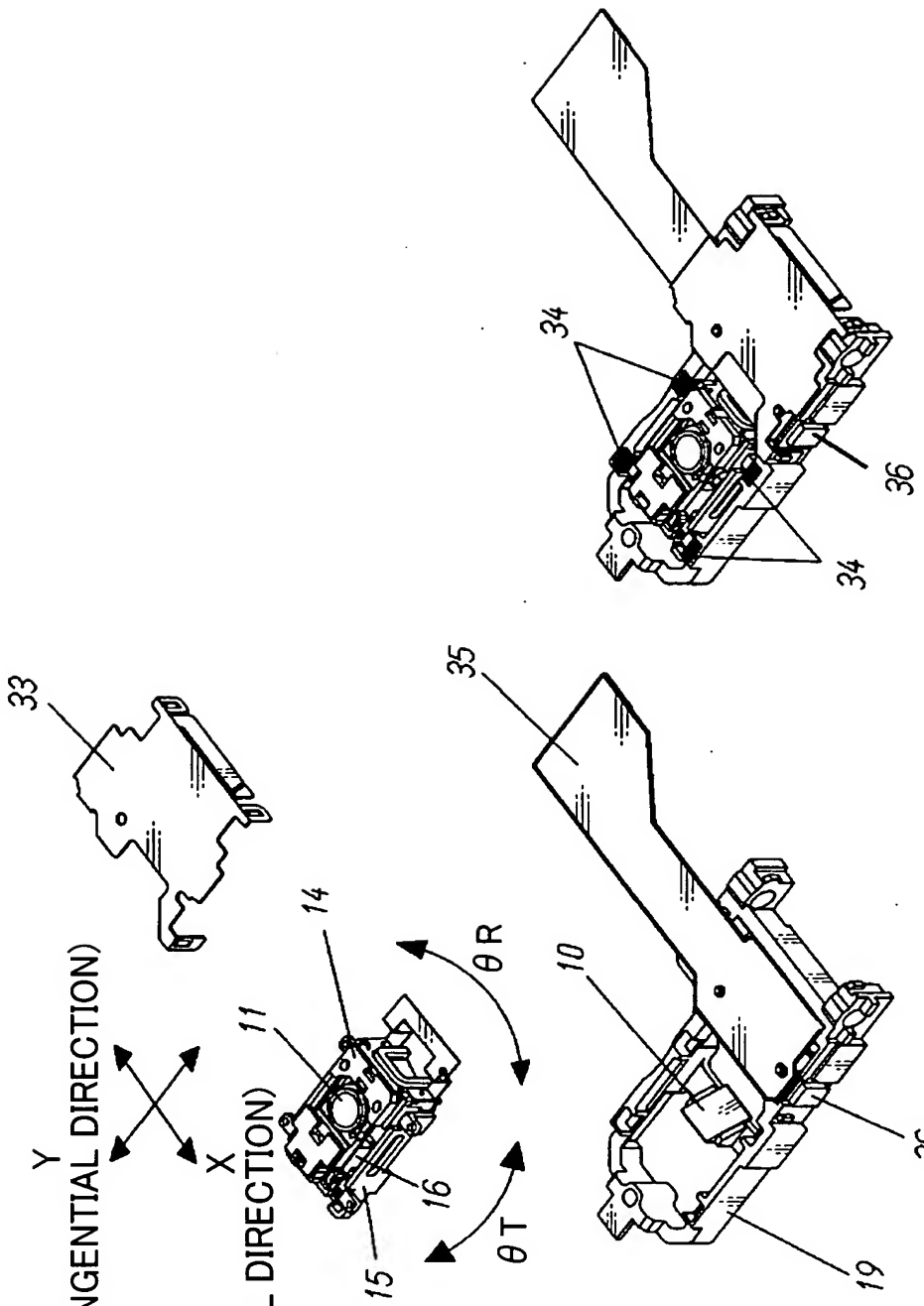


FIG.14A

FIG.14B

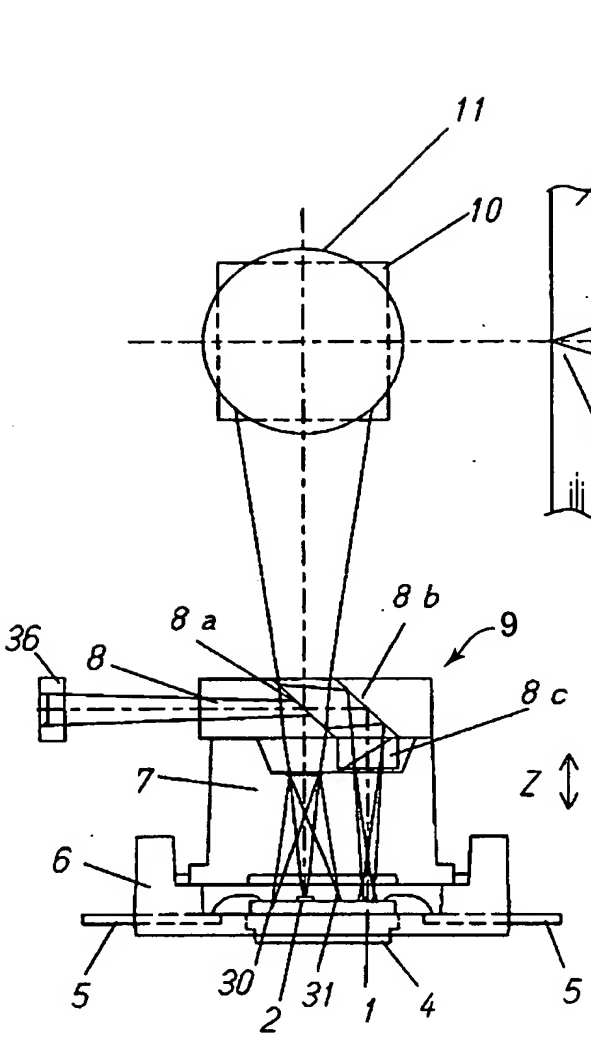


FIG.15A

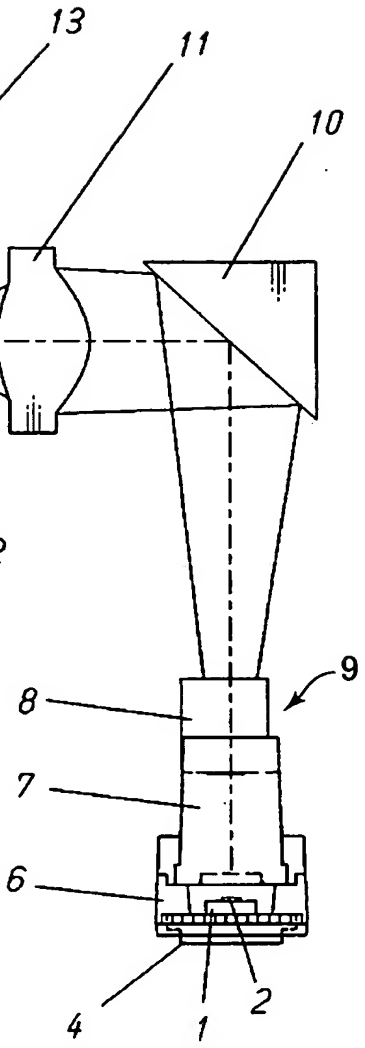
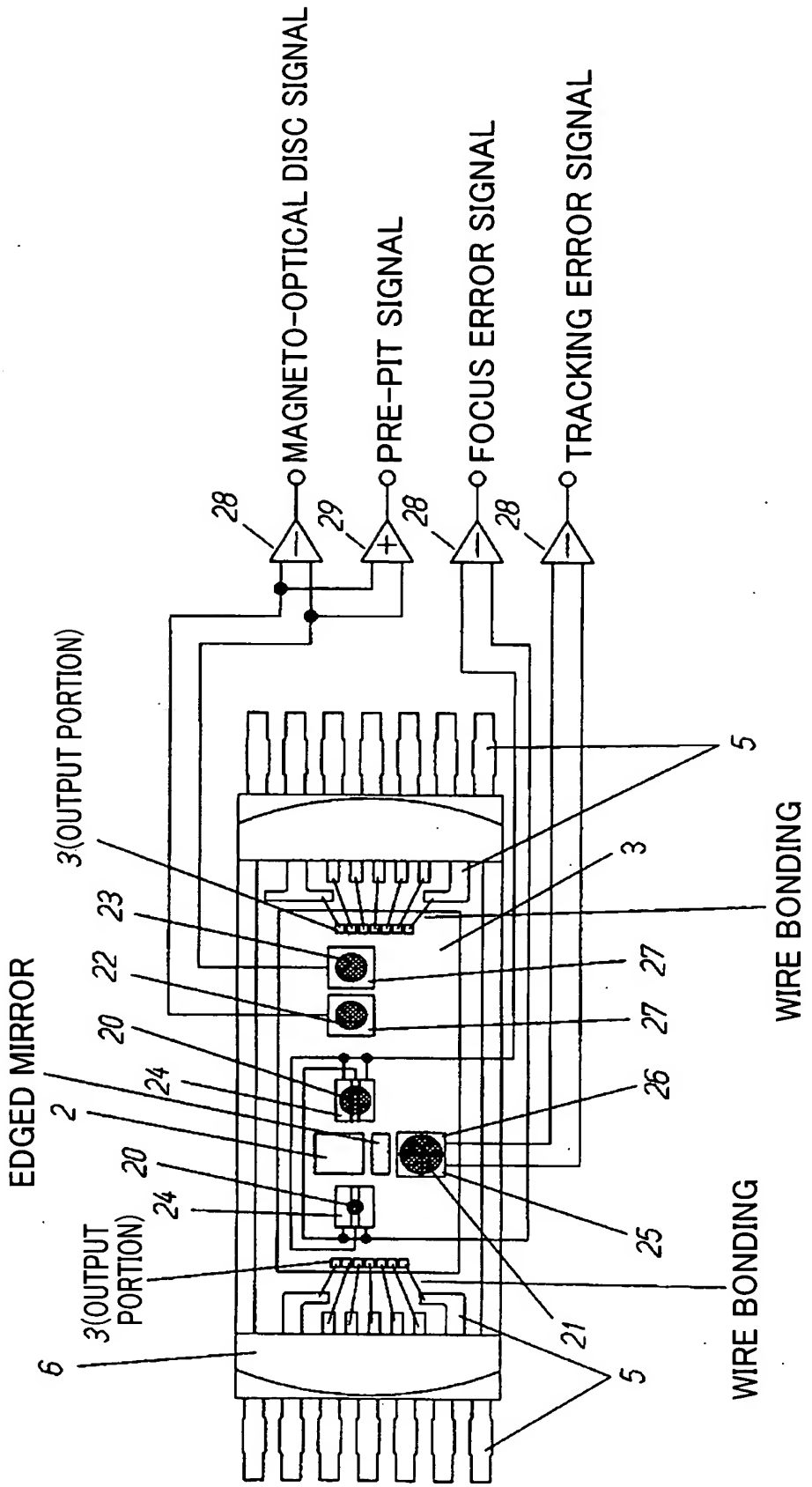


FIG.15B

FIG.16


MAGNETO-OPTICAL DISC SIGNAL
PRE-PIT SIGNAL
FOCUS ERROR SIGNAL
TRACKING ERROR SIGNAL
28
29
28
28
3(OUTPUT PORTION)
EDGED MIRROR
2
3(OUTPUT PORTION)
6
23
22
20
24
20
24
5
3
27
27
26
25
21
5
WIRE BONDING
WIRE BONDING